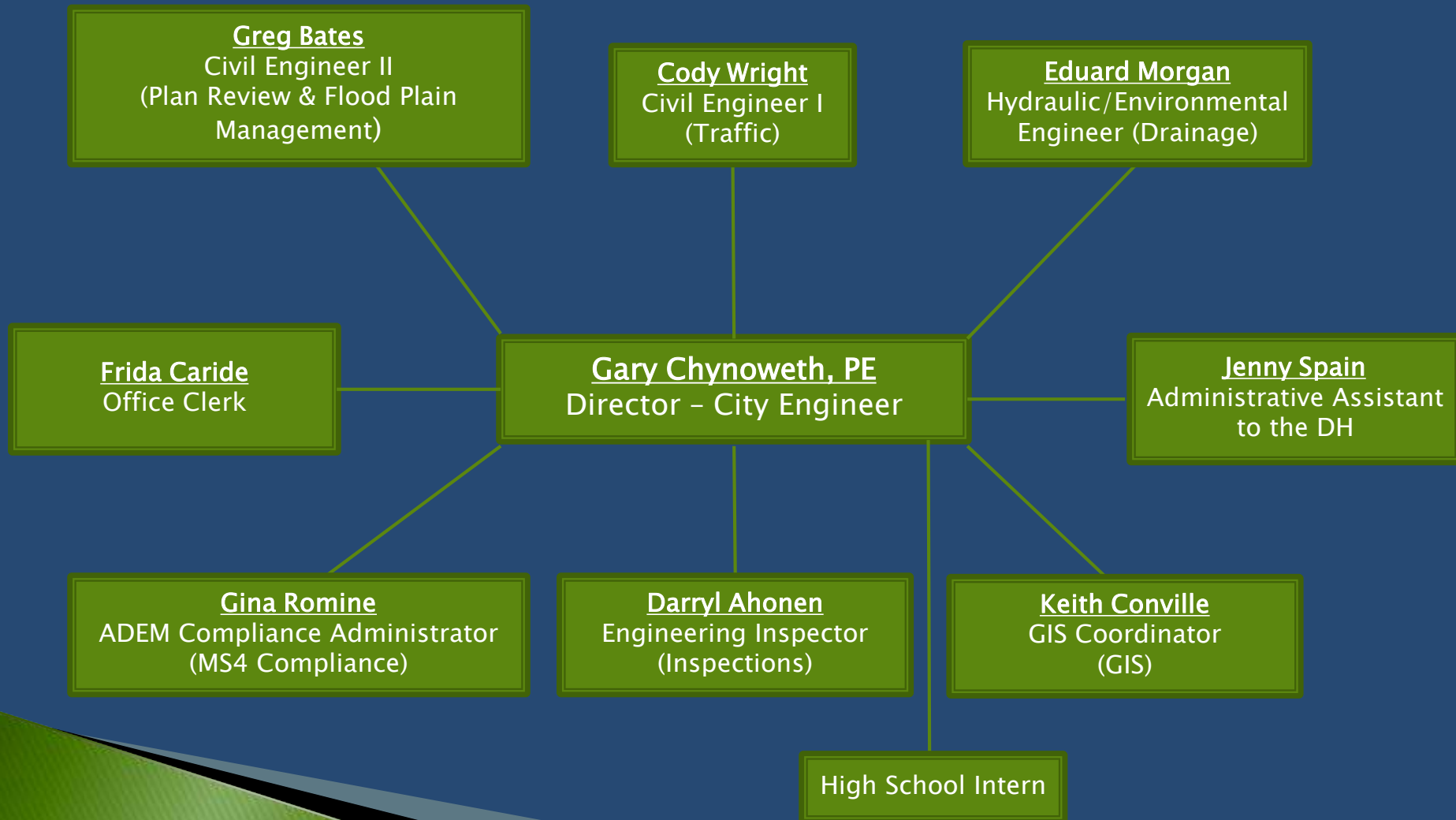




# Council Work Session Engineering 4-19-2017



# Organizational Chart



# Departmental Phone List

Employee	External Dial	Internal Dial	Cell Phone
Gary Chynoweth	256-772-5639	x5639	256-527-7262
Jenny Spain	256-772-8431	x5431	256-565-7175
Greg Bates	256-772-2563	x5596	256-509-6786
Keith Conville	256-772-5629	x5629	N/A
Cody Wright	256-772-2565	x5437	256-694-0509
Gina Romine	256-772-5672	x5672	256-652-4462
Darryl Ahonen	256-772-5632	x5632	256-797-8025
<i>Eduard Morgan</i>	256-774-4414	x5717	N/A
<i>Frida Caride</i>	256-774-4421	x5724	N/A

# General Services

- ▶ Provide civil engineering support to all City departments
- ▶ Provide engineering plan review and construction inspection for subdivision and site development
- ▶ Provide residential inspection of sidewalk and drainage of new homes
- ▶ Coordinate and maintain the City mapping system.



# VOTING DISTRICT MAP

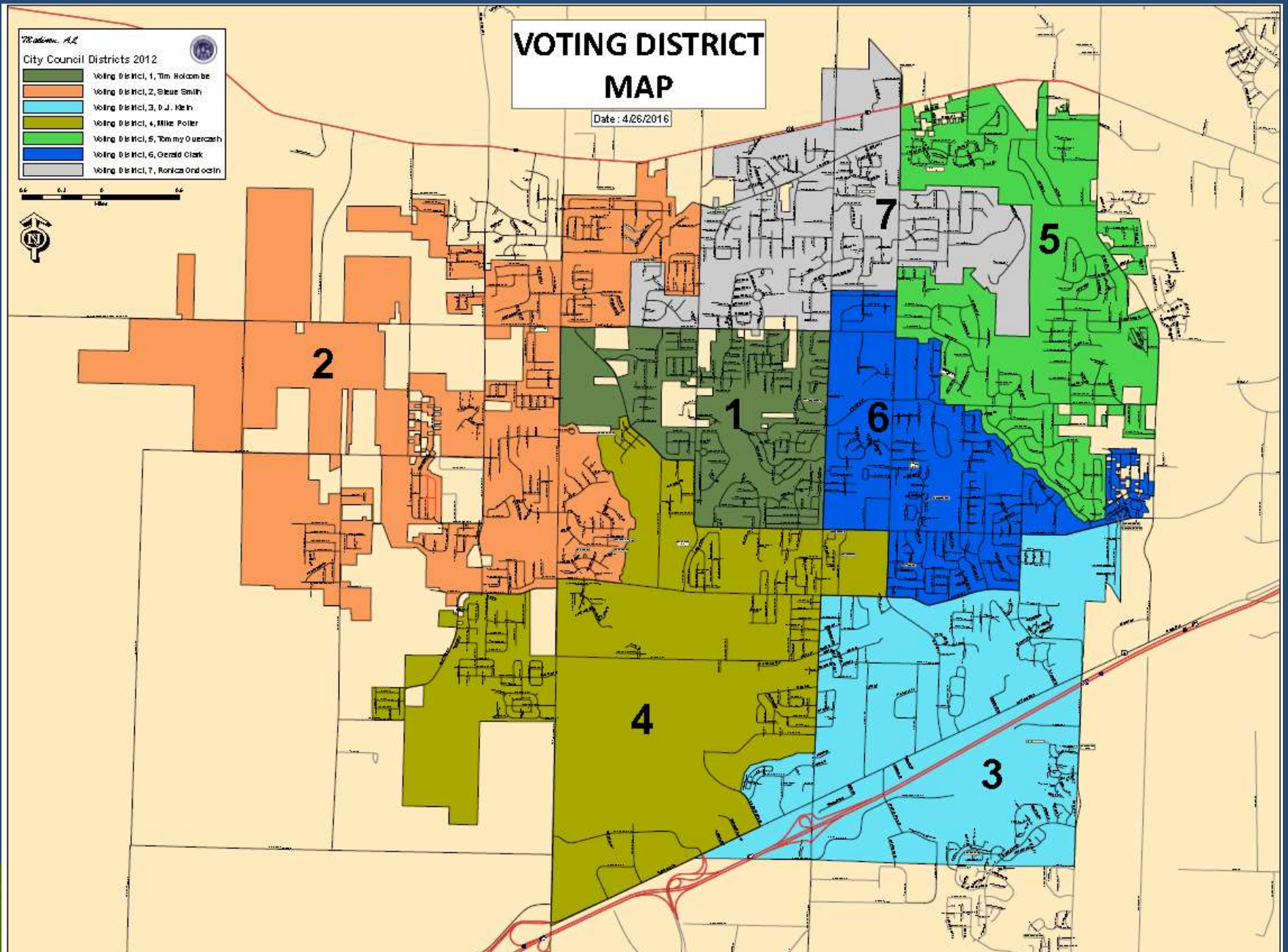
Date: 4/26/2016

Madison, AL

City Council Districts 2012

- Voting District 1, Tim Holcombe
- Voting District 2, Steve Smith
- Voting District 3, D.J. Klein
- Voting District 4, Mike Potter
- Voting District 5, Tommy Overcash
- Voting District 6, Gerald Clark
- Voting District 7, Ronica Ondaatje

0.0 0.2 0.4 0.6 Miles

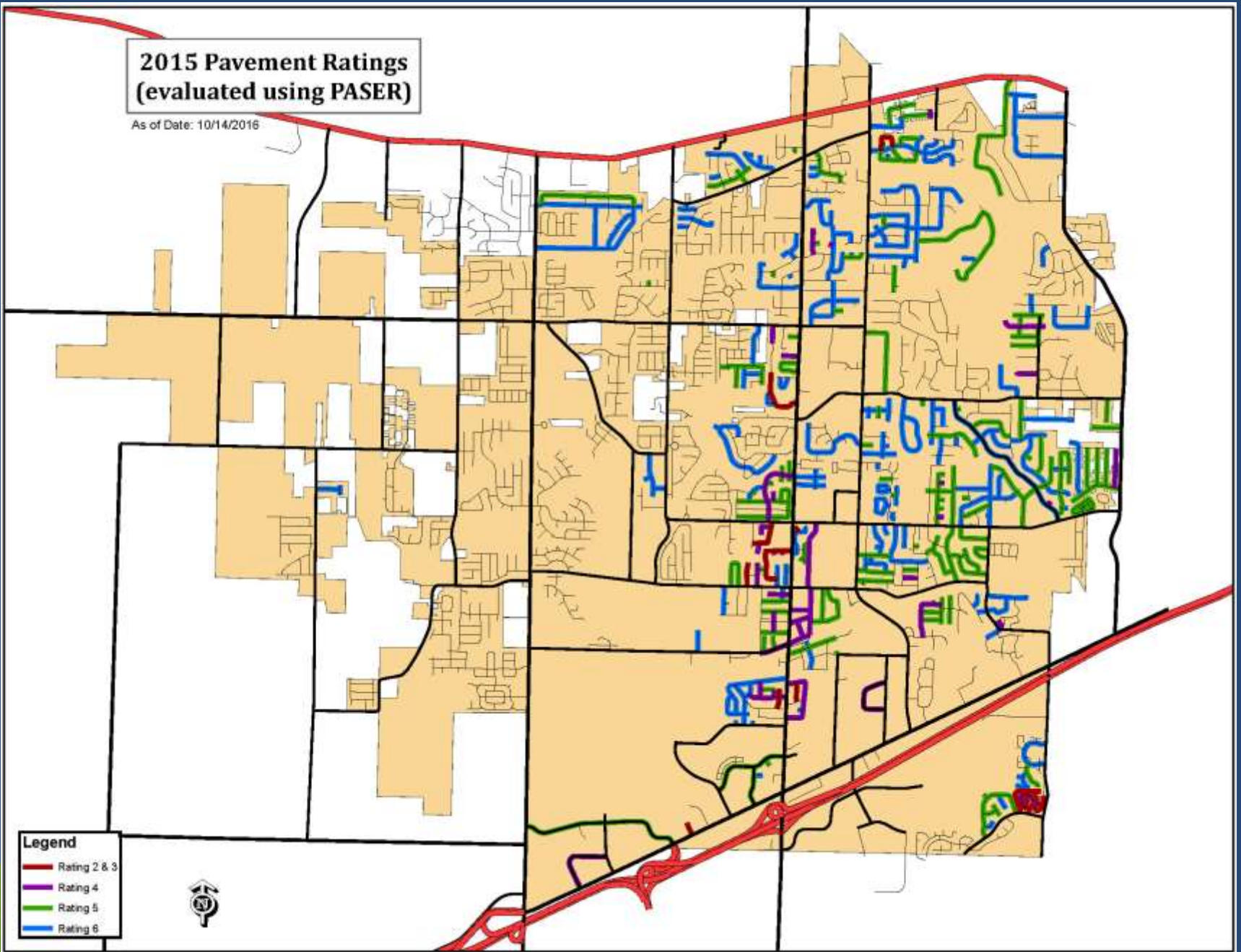


# Traffic

- ▶ Evaluate streets in five year intervals for maintenance
- ▶ Maintain a five year plan for neighborhood street resurfacing
- ▶ Maintain traffic volume counts for major streets
- ▶ Evaluate signal timing to adjust for traffic pattern changes
- ▶ Evaluate traffic accident patterns

# 2015 Pavement Ratings (evaluated using PASER)

As of Date: 10/14/2016



## Legend

- Rating 2 & 3
- Rating 4
- Rating 5
- Rating 6





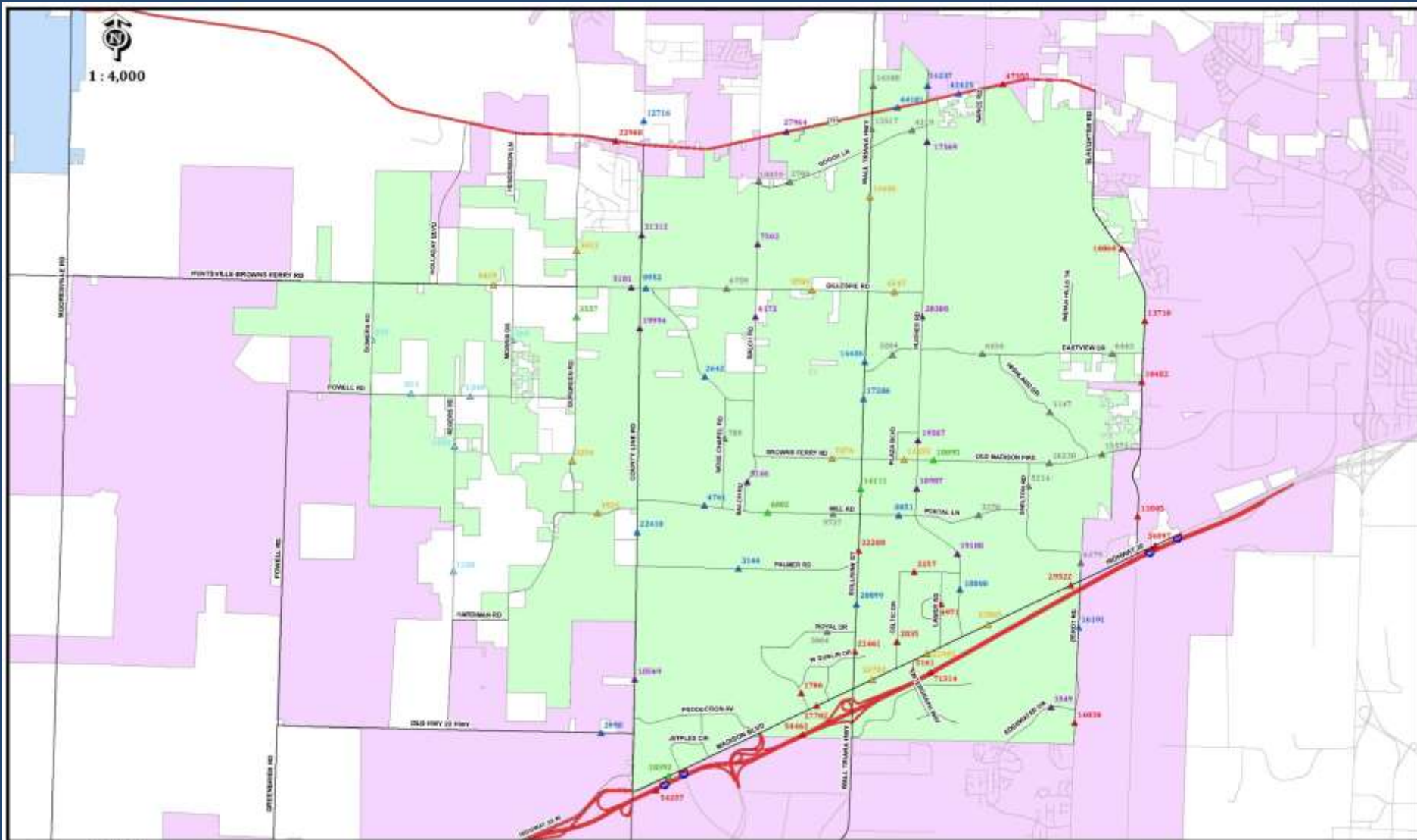
# 2017 Neighborhood Paving 5 Year Plan

As of Date: 10/14/2016

- Legend**
- Completed
  - 2017
  - 2018
  - 2019
  - 2020
  - 2021







#### Legend

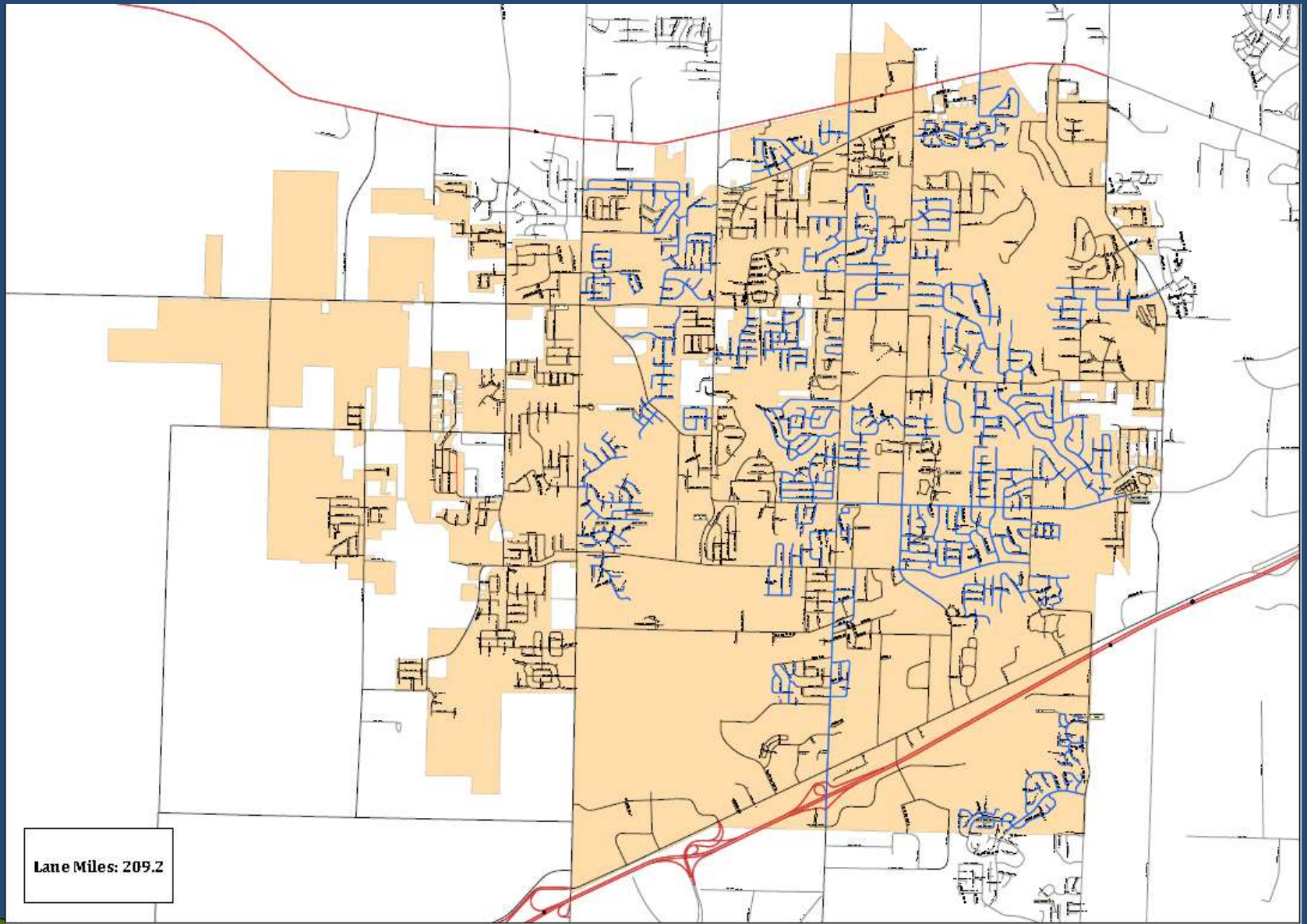
- ▲ Counts Taken In and Prior to 2010
- ▲ Counts Taken In 2015
- ▲ Counts Taken In 2016
- ▲ Counts Taken In 2011
- ▲ Counts Taken In 2014
- ▲ Counts Taken In 2012
- ▲ Counts Taken In 2015

### Current Traffic Count Map

Date: 9/26/2016

# MS4 Permit Compliance

- ▶ Storm Water Collection System Operations
- ▶ Public Education & Public Involvement
- ▶ Illicit Discharge Detection & Elimination
- ▶ Construction Site Storm Water Runoff Control
- ▶ Post-Construction Storm Water Management
- ▶ Pollution Prevention / Good Housekeeping for Municipal Operations



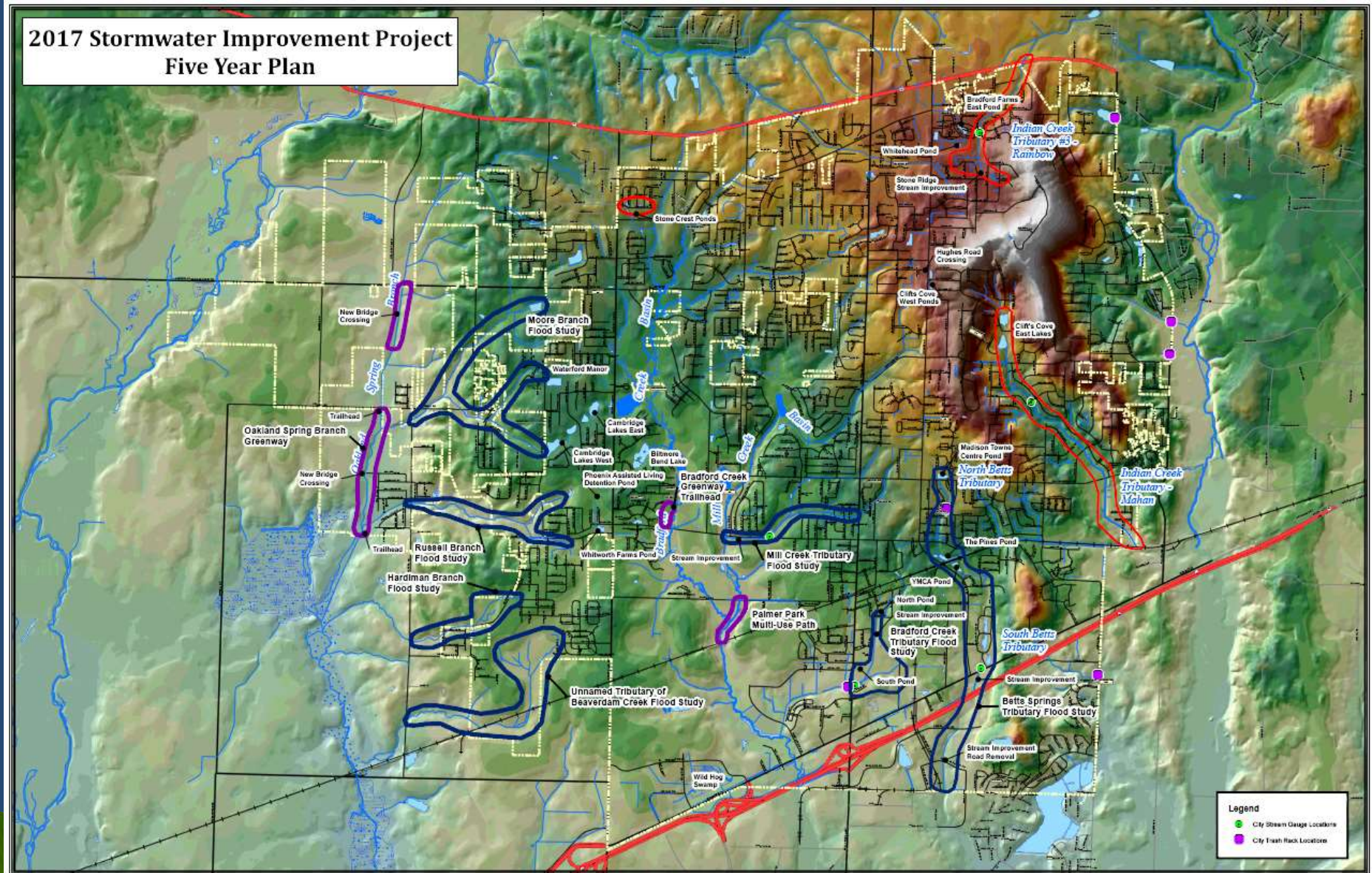
Lane Miles: 209.2



### Proposed 2017 Street Sweeping



# 2017 Stormwater Improvement Project Five Year Plan





# Public Education and Involvement



2015 Madison Street Festival



2016 Business Expo and Kids Day

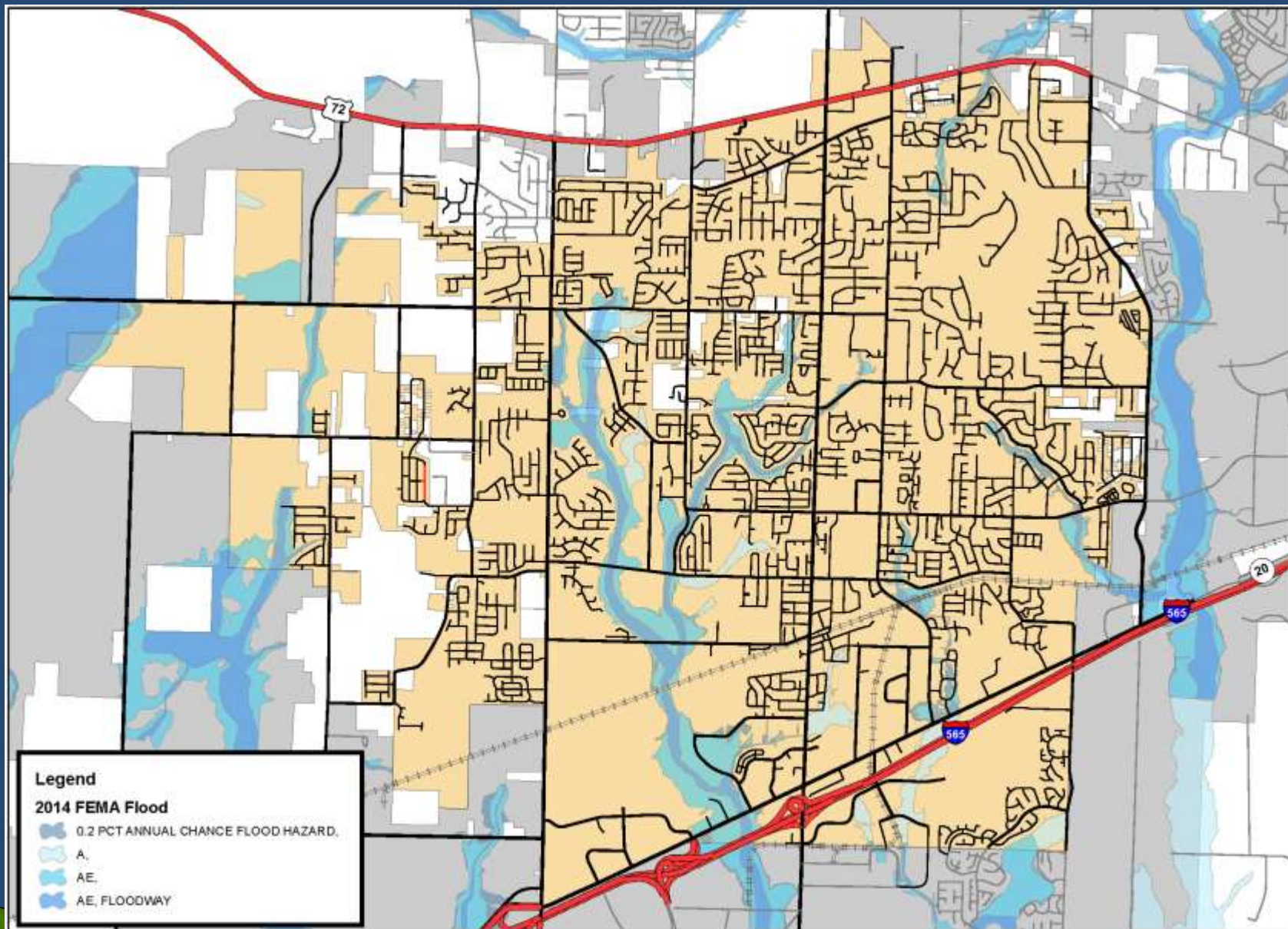
# Cedar Cove Sediment Pond



# Flood Plain Management

- ▶ Administer the Floodplain Management Ordinance
- ▶ Control development around flood areas
- ▶ Coordinate flood requirements with building permit approval
- ▶ Require and maintain Elevation Certificates





NOT TO SCALE

## Madison Flood



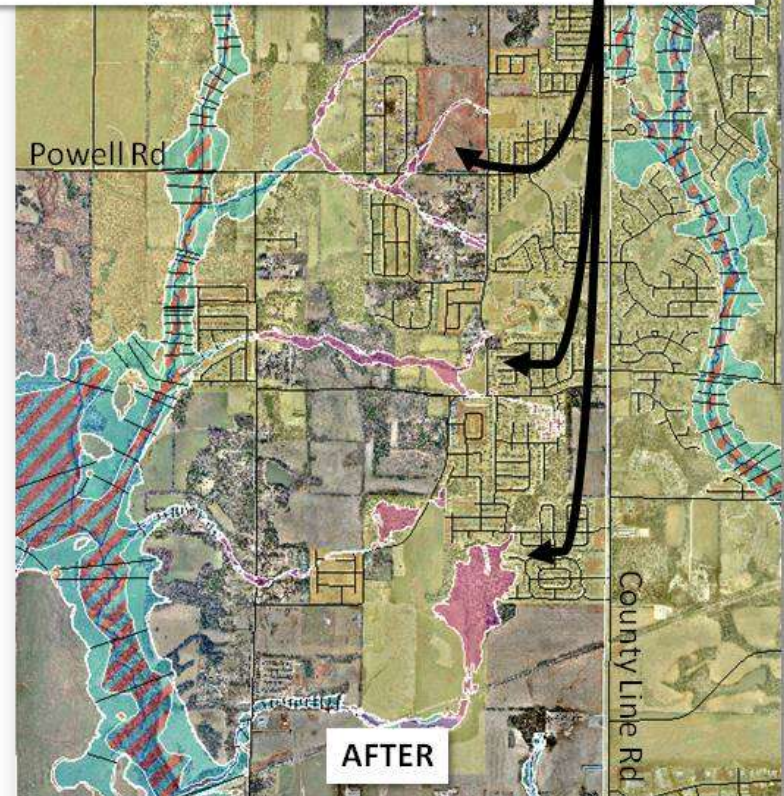
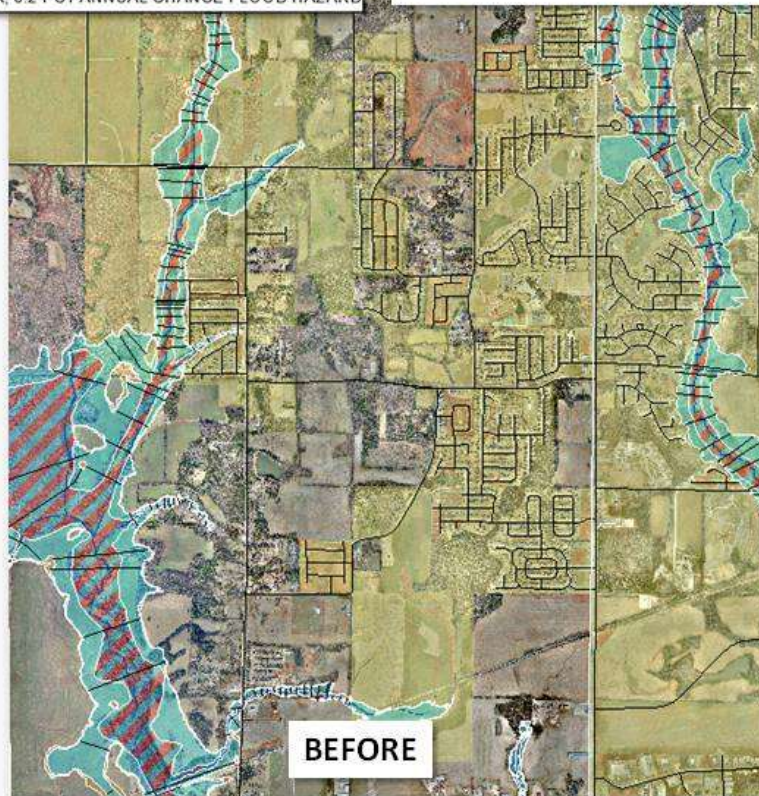
# Drainage

- ▶ Develop and maintain city-wide drainage and flood plain models
- ▶ Develop plans to reduce flood plain damage
- ▶ Develop flood plain maintenance program
- ▶ Develop storm water quality improvement projects
- ▶ Inspect City drainage control structures

#### Legend

- Newly Modeled Zone A
- Special Flood Hazard Areas
  - A<sub>1</sub>
  - AE<sub>1</sub>
  - AE<sub>1</sub> FLOODWAY
  - X, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

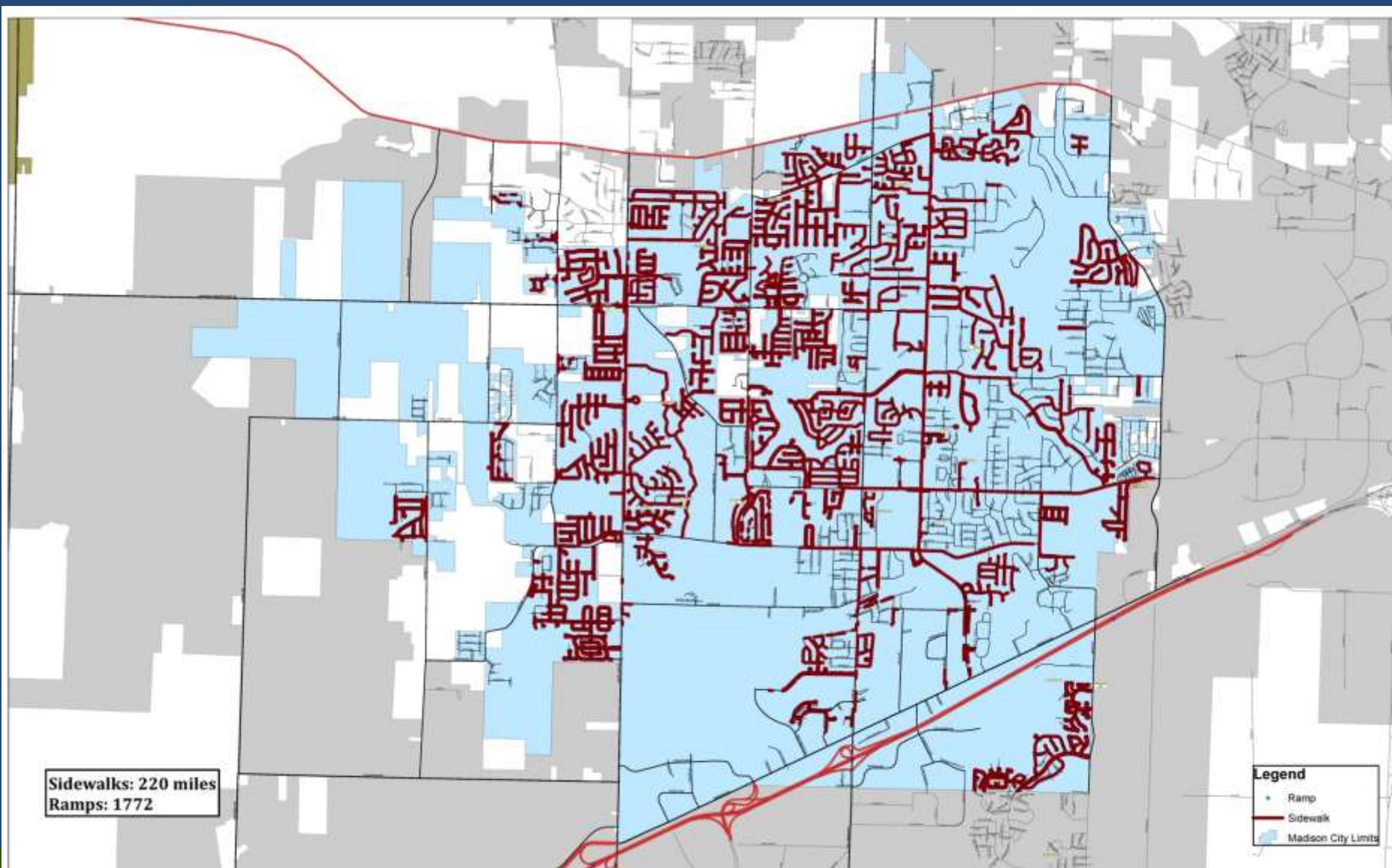
## Modeled Approximate Studies (in pink)



# ADA Compliance for Pedestrian Access in ROW

- ▶ Maintain the City ADA Transition Plan for pedestrian access in public rights of way
- ▶ Develop yearly report of ADA activity within the public rights of way
- ▶ Manage ADA improvement projects





Sidewalk Inventory



# Collector Road Improvements

- ▶ Manage collector road resurfacing projects
- ▶ Manage collector road infrastructure improvements
- ▶ Coordinate major street activity with ALDOT and City of Huntsville

# Cost Sharing of Projects

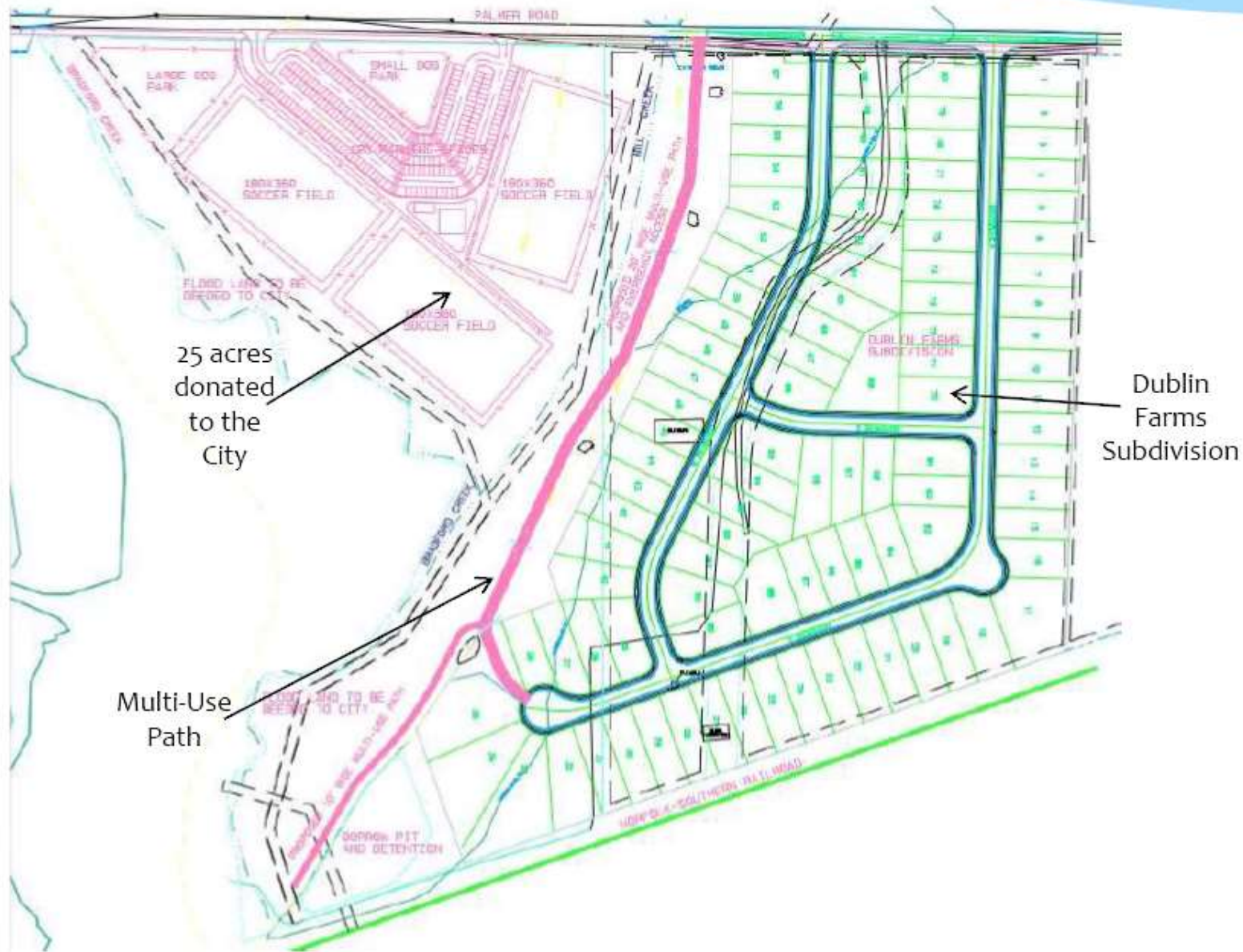
- ▶ Coordinate infrastructure projects to leverage assistance from other public agencies
- ▶ Coordinate infrastructure needs to leverage opportunities with private developers
- ▶ Madison County shared projects include street resurfacing and drainage
- ▶ Limestone County shared projects include street resurfacing and reconstruction
- ▶ Developer shared projects include drainage, greenway and bridge projects



























# Primary 2016 Projects

- ▶ The Pines Detention Pond construction
- ▶ The YMCA Retention Pond modification
- ▶ Garner Street Drainage Improvements
- ▶ Huntsville–Brownsferry Road resurfacing
- ▶ ADA Transition Plan for Pedestrian Access in Public Rights of Way
- ▶ Cedar Acres Drive Reconstruction
- ▶ Brownsferry Road Resurfacing
- ▶ Neighborhood Streets resurfacing for 2016
- ▶ Begin design of Palmer Park Multi–Use Path and Oakland Springs Branch Green Way
- ▶ Designed Coefer Blvd Extension To Plaza Blvd.

# Proposed 2017 Projects

- ▶ Bradford Creek Greenway Trailhead, Phase 1
- ▶ Palmer Road resurfacing
- ▶ 2017 Neighborhood Street resurfacing
- ▶ Begin Balch Road widening and roundabout
- ▶ Begin Oakland Spring Branch Greenway
- ▶ Complete Moore's Creek Bridge
- ▶ Complete Palmer Park Multi-Use Path
- ▶ Complete Coefer Road extension
- ▶ Submit FEMA LOMR's for Betts Spring and Bradford Creek tributaries.
- ▶ Replace Mill Road Bridge over Bradford Creek
- ▶ Install four new traffic signals